SOLAR PHOTOVOLTAIC PLANTS

ELLIS TRACT
Dryden, New York 13053

SPECIAL USE PERMIT APPLICATION

MAY 30, 2017
SUBMITTED TO TOWN BOARD
Town of Dryden, Tompkins County

CODES AND REGULATIONS

NEC 2014
NYS Standard Interconnection Requirements
Town of Dryden Building Code
Town of Dryden Site Plan Review

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Distributed Sun

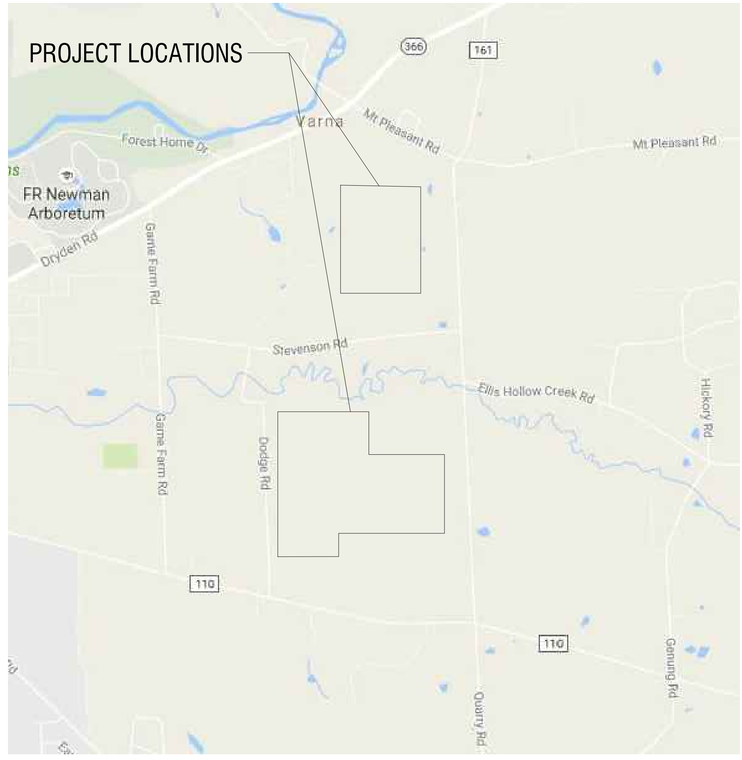
LANDOWNER: CORNELL UNIVERSITY,
UTILIZED TEN PARCELS

DEVELOPER: sun8 PDC LLC
C/O Distributed Sun LLC
601 13th St. NW
Suite 450 South
Washington, DC 2005

Contact: Bharath Srinivasan
Bharath@distributedsun.com

Engineer: Dan Walker
Labella Associates D.P.C.
Job No. 2170026

Distribution Utility
New York State Electric and Gas



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300 STATE STREET. SUITE 201
ROCHESTER, NY 14614
P: (585) 454-6110
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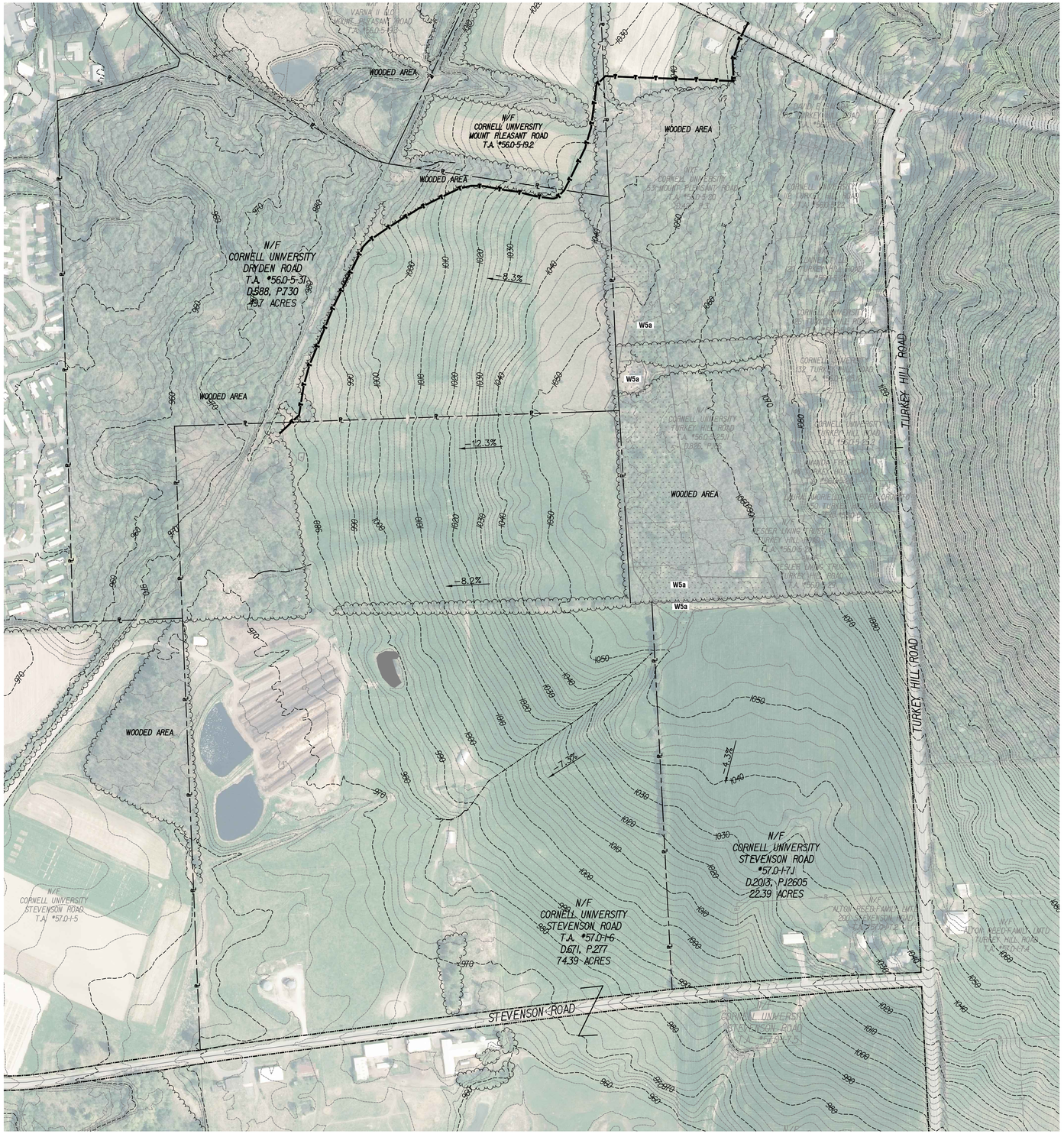
APRIL 12, 2017
REVISED APRIL 26, 2017

SOLAR PHOTOVOLTAIC PLANTS



N

LEGEND

STANDARD SYMBOLS

- UTILITY POLE
- FENCELINE
- CENTERLINE
- WOODED AREA OUTLINE
- GRUBBING CLEARING LIMIT
- TREE CUTTING LIMIT WINTER
- TREE CUTTING LIMIT SUMMER
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- RIGHT OF WAY
- PROPERTY LINE
- PV MODULES
- CHAIN-LINK FENCE
- CONCRETE PAD
- SILT FENCE
- E TRENCH
- ELECTRICAL WIRE
- GRAVEL ACCESS ROAD
- VEGETATIVE SCREEN
- N4 ARRAY NUMBER
- WETLAND

100 0 100 200 300 400'
1" = 200'

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DANIEL R. WALKER
055238
PROFESSIONAL ENGINEER

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SOLAR PHOTOVOLTAIC PLANTS

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sun8 PDC LLC

DISTRIBUTED SUN

ELLIS TRACT PROJECT

DRYDEN, N.Y. 13053

REVISIONS

NO:	DATE:	DESCRIPTION:

PROJECT NUMBER: 2170026

DRAWN BY: TAP

REVIEWED BY:

ISSUED FOR:

DATE: 04/12/2017

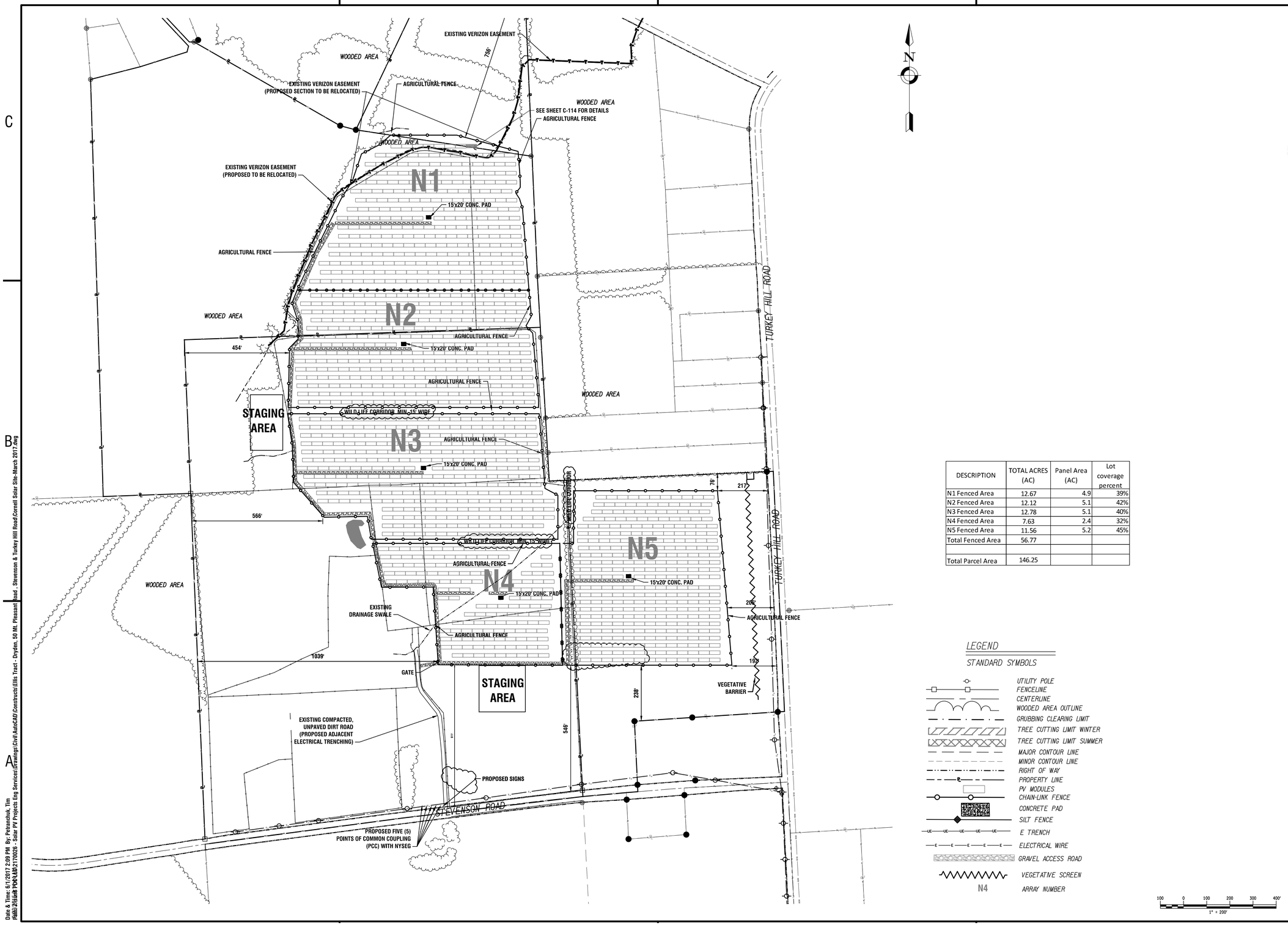
DRAWING NAME:

GROUP "N" EXISTING SITE CONDITIONS

DRAWING NUMBER:

C-101

Date & Time: 5/1/2017 2:09 PM By: Petyanchuk, Tim
Path: J:\sun8 PDC LLC\2170026 - Solar PV Projects Eng Services\Drawings\Civil\AutoCAD\Constructs\Ellis Tract - Dryden, 50 Mt. Pleasant Road - Stevenson & Turkey Hill Road\Cornell Solar Site-March 2017.dwg



DESCRIPTION	TOTAL ACRES (AC)	Panel Area (AC)	Lot coverage percent
N1 Fenced Area	12.67	4.9	39%
N2 Fenced Area	12.12	5.1	42%
N3 Fenced Area	12.78	5.1	40%
N4 Fenced Area	7.63	2.4	32%
N5 Fenced Area	11.56	5.2	45%
Total Fenced Area	56.77		
Total Parcel Area	146.25		

LEGEND

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- VEGETATIVE SCREEN
- N4 ARRAY NUMBER

100 0 100 200 300 400'
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055288
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ELLIS TRACT PROJECT

DRYDEN, N.Y. 13053

REVISIONS

NO:	DATE:	DESCRIPTION:
1	4/26/17	SEE REVISION CLOUDS
2	5/30/17	ROW SPACING, TRENCHES

PROJECT NUMBER: 2170026

DRAWN BY: TAP

REVIEWED BY: DW

ISSUED FOR: TOWN OF DRYDEN

DATE: 05/30/2017

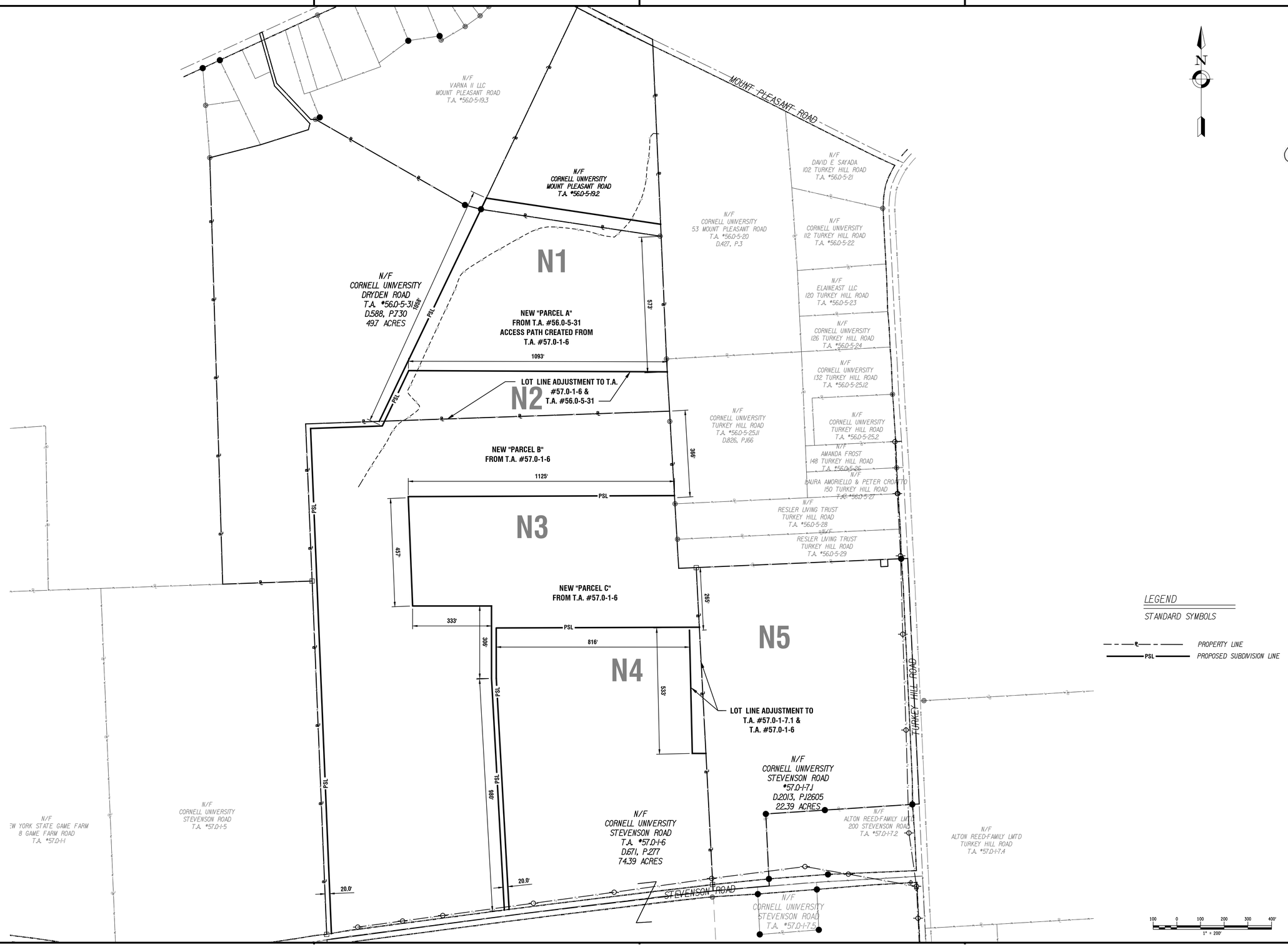
DRAWING NAME:

GROUP "N" PROPOSED SITE PLAN

DRAWING NUMBER:

C-102

Date & Time: 6/1/2017 2:09 PM By: Petranchuk, Tim
Path: S:\Sun8 PDC LLC\2170026 - Solar PV Projects Eng Services\Drawings\Civil\AutoCAD\Constructs\Ellis Tract - Dryden, 50 Mt. Pleasant Road , Stevenson & Turkey Hill Road\Cornell Solar Site-March 2017.dwg



Date & Time: 6/1/2017 2:10 PM By: Petranchuk, Tim
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ELLIS TRACT PROJECT

DRYDEN, N.Y. 13053

REVISIONS

NO:	DATE:	DESCRIPTION:

PROJECT NUMBER: 2170026

DRAWN BY: TAP

REVIEWED BY:

ISSUED FOR:

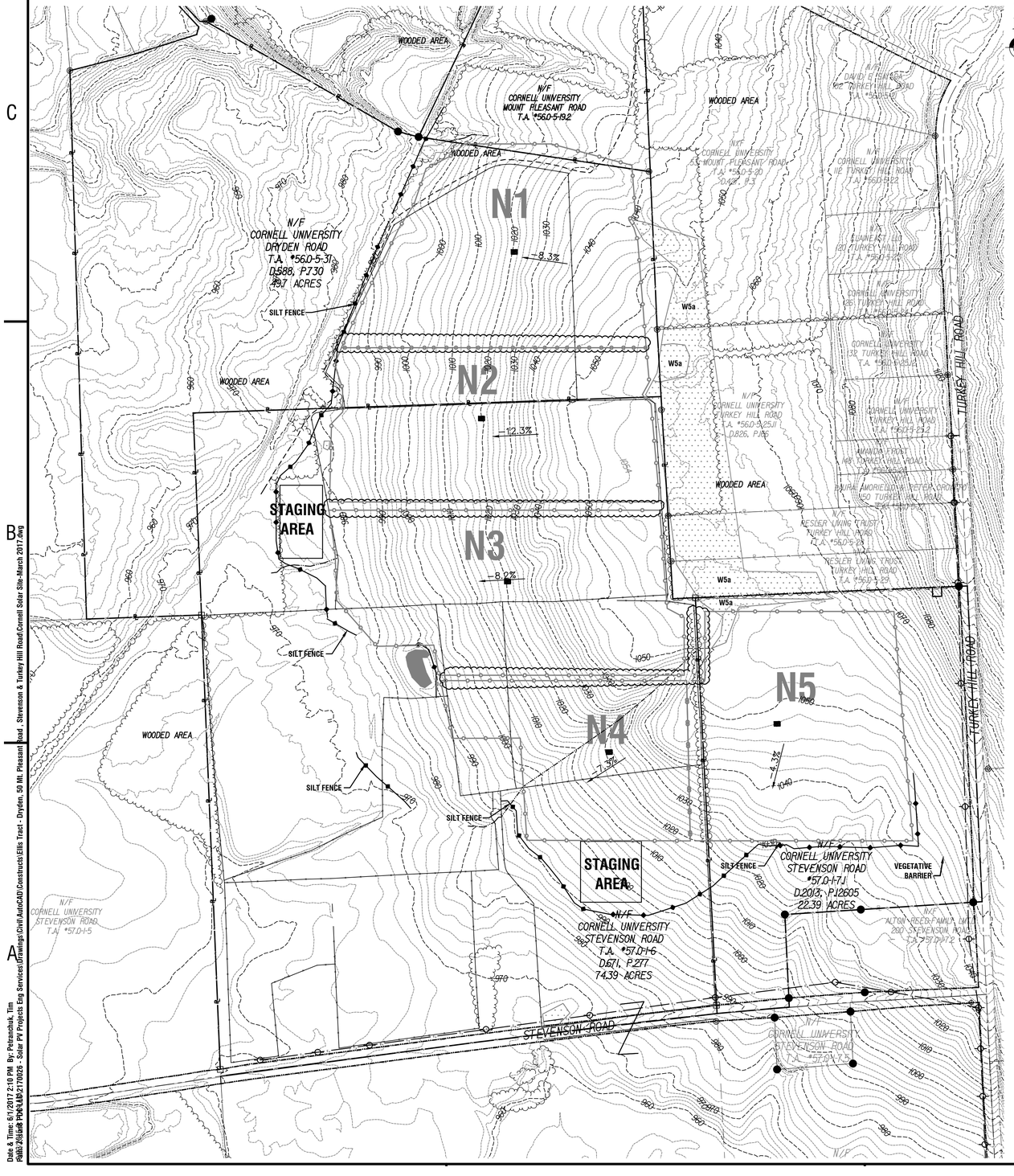
DATE: 04/12/2017

DRAWING NAME:

GROUP "N" PROPOSED SUBDIVISION PLAN

DRAWING NUMBER:

C-103



Date & Time: 6/1/2017 2:10 PM By: Petrancosk, Tim
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EROSION & SEDIMENT CONTROL NOTES

1. THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) INCLUDES PROJECT PLANS, THE NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL, PLUS THE STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) GENERAL PERMIT (GP-0-10-001) AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS. REFER TO THE PLANS FOR LOCATIONS OF POST-CONSTRUCTION INLET PROTECTION AND POST-CONSTRUCTION STORMWATER MANAGEMENT PRACTICES.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH SITE DISTURBANCE ACTIVITIES SHALL OBTAIN A COPY OF THE SWPPP AND THE GENERAL PERMIT (GP-0-10-001), BECOME FAMILIAR WITH THEIR CONTENTS, AND COMPLETE AND SIGN A CONTRACTOR'S CERTIFICATION STATEMENT.
3. THE CONTRACTOR SHALL IMPLEMENT BMP'S AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY THE SITE CONDITIONS AT NO ADDITIONAL COST TO THE OWNER, THROUGHOUT ALL PHASES OF CONSTRUCTION
4. BMP'S AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY THE PERMITTING AGENCY OR OWNER.
5. THE CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GERNERAL PERMIT.
6. THE CONTRACTOR SHALL REVISE, IF NECESSARY, THE LOCATIONS FOR STOCK PILES/STORAGE AREAS, EQUIPMENT MAINTENANCE AND CLEANING AREAS, WASTE DISPOSAL AREAS, AND AREAS FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
7. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
8. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
9. DUST ON THE SITE MUST BE CONTROLLED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK TO WATER DOWN CONSTRUCTION ROADS DURING DRY PERIODS TO MINIMIZE DUST GENERATION. THE CONTRACTOR MAY ALSO BE REQUIRED BY THE OWNERS REPRESENTATIVE TO INSTALL ADDITIONAL MEASURES SUCH AS FABRIC ON DOWNWIND FENCES TO CONTROL DUST. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
10. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DISPOSED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
11. ALL BMP'S PRESENTED TO THESE PLANS AND IN THE SWPPP SHALL BE INITIATED AS SOON AS PRACTICABLE.
12. ALL DISTURBED AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE MUST BE STABILIZED TEMPORARILY WITH THE USE OF FAST-GERMINATING ANNUAL GRASS-GRAIN VARIETIES, STRAW-HAY MULCH, WOOD CELLULOSE FIBERS, TACKAFIER, NETTING, OR RECP (EROSION CONTROL BLANKETS).
13. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEEDED AND/OR VEGETATED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
14. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCE IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. USE ONLY CONSTRUCTION ENTRANCES DESIGNED ON THIS PLAN TO ACCESS SITE. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND.
15. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO PUBLIC STREETS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE CONTRACTOR SHALL SWEEP AND/OR WASH DOWN PUBLIC STREETS AS NECESSARY THROUGHOUT THE PROJECT.
16. ON-SITE AND OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BMP'S. THE LOCATIONS OF OFF-SITE STOCKPILES AND BORROW AREAS MUST BE NOTED ON THIS PLAN AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
17. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION. A BULLDOZER SHOULD TRACK UP AND DOWN SIDE SLOPES (PERPENDICULAR TO CONTOURS) WHERE POSSIBLE.
18. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.
19. CONTRACTOR TO LIMIT DISTURBANCE OF SITE. NO UNNECESSARY CLEARING AND/OR GRADING SHALL BE PERMITTED.
20. ALL GRADED OR DISTURBED AREAS INCLUDING SLOPES SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND SWPPP UNTIL THEY ARE PERMANENTLY STABILIZED.
21. TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF VEGETATION SHALL BE STOCKPILED IN AMOUNT NECESSARY TO COMPLETE FINISHED GRADING OF ALL EXPOSED AREAS. EXCESS TOPSOIL TO REMAIN ON SITE.
22. AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL PRIOR TO PLACEMENT OF FILL.
23. ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.
24. STOCKPILE AREAS IN ADDITION TO THOSE CURRENTLY SHOWN ON THE PLAN SHALL BE ADDED TO THIS DRAWING AND SHALL BE SUBJECT TO THE PROVISIONS OF THE SWPPP.
25. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
26. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
27. ANY TREE CLEARING WITHIN WETLANDS WILL NEED NOTIFICATION TO USCOE.
28. THE CONTRACTOR SHALL BE RESPONSIBLE TO UPDATE SWPPP AS REQUIRED AND SUBMIT AN NOI.
29. CONTRACTOR WILL ATTEMPT TO REMOVE TREE STUMPS WITHIN THE PROJECT BOUNDARY BY GRINDING IN PLACE. IF THIS SOLUTION IS INFEASIBLE, CONTRACTOR WILL NOTIFY THE ENGINEER AND PURSUE A REMOVAL FROM THE LOCATION AND CHIPPING ON SITE.
30. CONTRACTOR WILL RETURN CONSTRUCTION STAGING AREAS AND CONSTRUCTION ACCESS ROADS TO PRE-DEVELOPMENT CONDITIONS BASED ON THE SWPPP.

PROPOSED GRAVEL ACCESS ROAD
AREA = 1.56 ACRES

LEGEND

STANDARD SYMBOLS

- UTILITY POLE
- FENCELINE
- CENTERLINE
- WOODED AREA OUTLINE
- GRUBBING CLEARING LIMIT
- TREE CUTTING LIMIT WINTER
- TREE CUTTING LIMIT SUMMER
- MAJOR CONTOUR LINE
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- RIGHT OF WAY
- PROPERTY LINE
- PV MODULES
- CHAIN-LINK FENCE
- CONCRETE PAD
- SILT FENCE
- E TRENCH
- ELECTRICAL WIRE
- GRAVEL ACCESS ROAD
- VEGETATIVE SCREEN
- N4 ARRAY NUMBER
- WETLAND
- PSL PROPOSED SUBDIVISION LINE

100 0 100 200 300 400'
1" = 200'

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ELLIS TRACT PROJECT

DRYDEN, N.Y. 13053

REVISIONS

NO:	DATE:	DESCRIPTION:
1	4/26/17	SEE REVISION CLOUDS

PROJECT NUMBER: 2170026

DRAWN BY: TAP

REVIEWED BY:

ISSUED FOR:

DATE: 04/26/2017

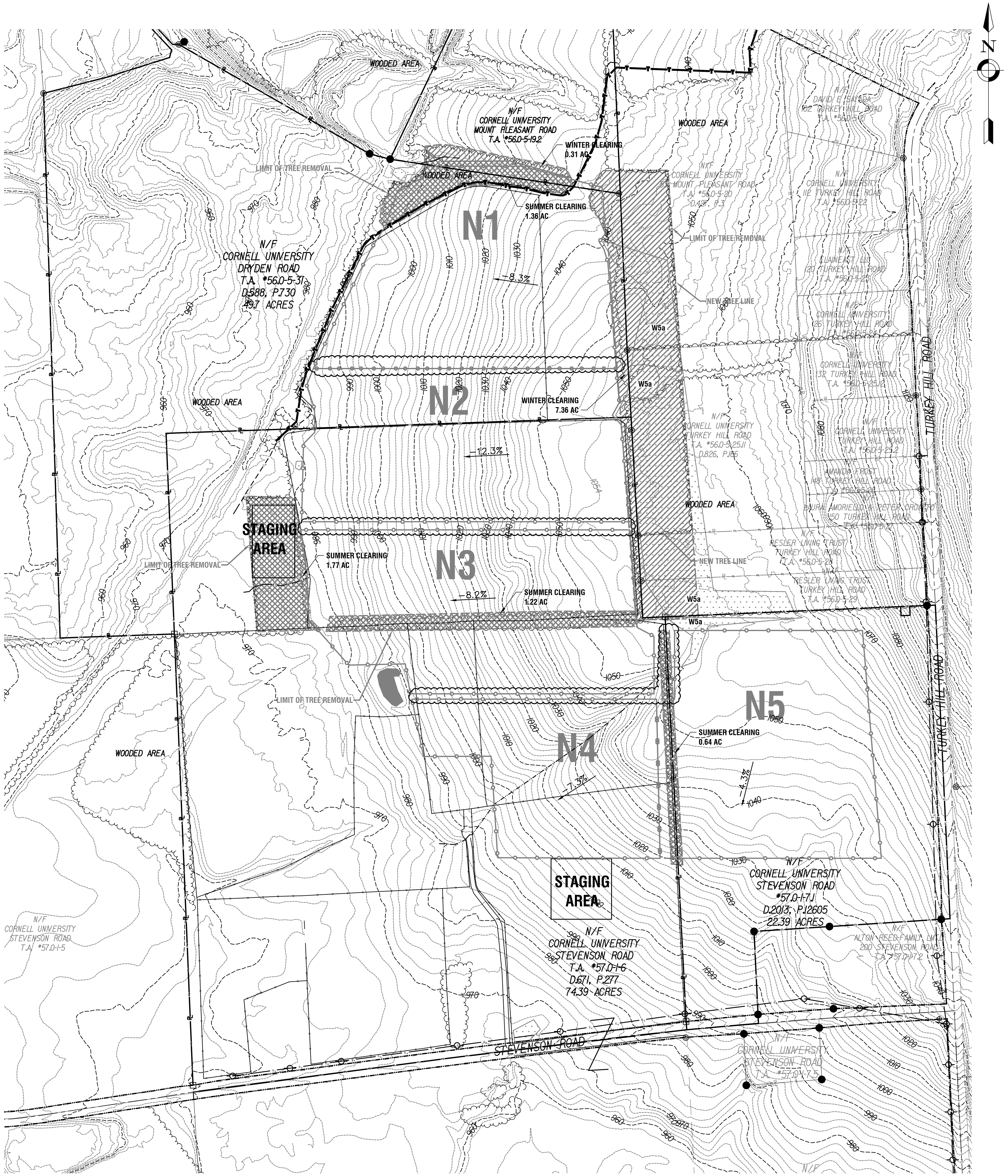
DRAWING NAME:

GROUP "N" EROSION AND SEDIMENT CONTROL PLAN

DRAWING NUMBER:

C-104

4 | 3 | 2 | 1



TREE REMOVAL REQUIRED

AREA	SUMMER CLEARING	WINTER CLEARING
WITHIN N1 & NORTH OF N1	1.36	0.31
E SIDE OF N1, N2, N3		7.36
W SIDE OF N3	1.77	
WITHIN N3	1.22	
BETWEEN N4 & N5	0.64	
W OF Dodge Rd		3.19
N & E OF S1 & S2	3.98	0.06
WITHIN S2	0.55	
WITHIN S3	0.59	
UTILITY CORRIDOR		1.19
INSIDE S4, S5	11.13	
EAST OF S4	0.19	0.71
EAST OF S5		0.89
INSIDE S5	0.77	
INSIDE S5	1.24	
SOUTH OF S5		0.54
SUB TOTAL	23.44	14.25
	TOTAL	37.69

100 0 100 200 300 400'
1" = 200'

LEGEND

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PROJECT NUMBER: 2170026

DRAWN BY: TAP

REVIEWED BY:

ISSUED FOR:

DATE: 04/26/2017

DRAWING NAME:

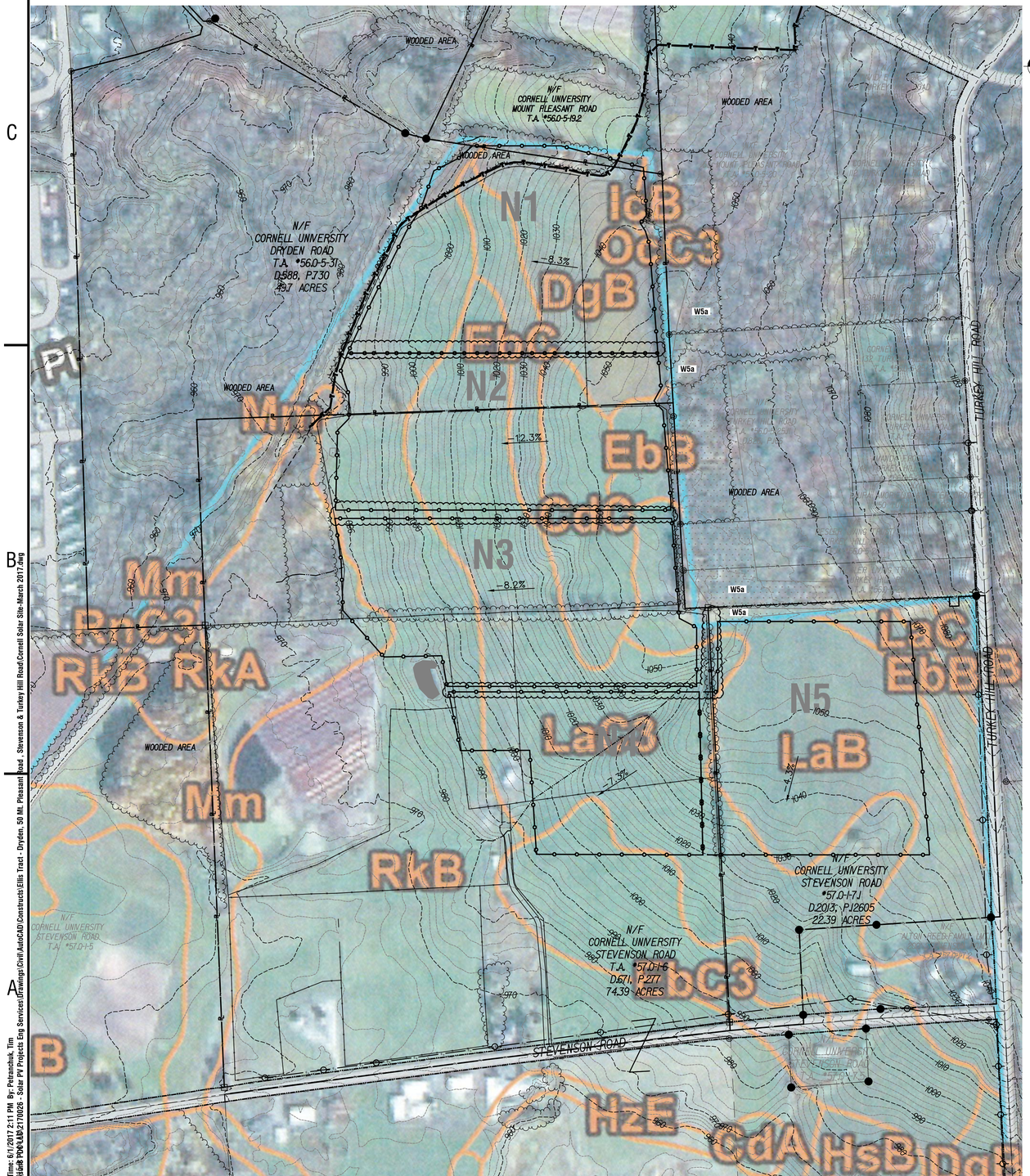
GROUP "N" TREE REMOVAL PLAN

DRAWING NUMBER:

C-105

C | B | A

Date & Time: 6/1/2017 2:10 PM By: Petranchuk, Tim
Path: 2015-8 PDC LLC\2170026 - Solar PV Projects Eng Services\Drawings\Civil\AutoCAD\Constructs\Ellis Tract - Dryden, 50 Mt. Pleasant Road , Stevenson & Turkey Hill Road\Cornell Solar Site-March 2017.dwg



Map Unit Legend

Tompkins County, New York (NY109)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
BgC	Bath and Valois soils, 5 to 15 percent slopes	7.0	1.3%
BgD	Bath and Valois soils, 15 to 25 percent slopes, eroded	0.7	0.1%
BoE	Bath and Valois soils, 25 to 35 percent slopes	8.9	1.6%
BvA	Braceville gravelly silt loam, 0 to 5 percent slopes	5.7	1.0%
Ca	Canandaigua and Lamson soils	36.3	6.5%
CdA	Chenango gravelly loam, 0 to 5 percent slopes	2.2	0.4%
CdC	Chenango gravelly loam, 5 to 15 percent slopes	14.3	2.6%
DgB	Darien gravelly silt loam, 2 to 8 percent slopes	37.7	6.8%
EbB	Erie channery silt loam, 3 to 8 percent slopes	37.0	6.7%
EbC	Erie channery silt loam, 8 to 15 percent slopes	2.9	0.5%
EbC3	Erie channery silt loam, 8 to 15 percent slopes, eroded	11.7	2.1%
Em	Eel silt loam	26.8	4.8%
ErA	Erie-Chippewa channery silt loams, 0 to 3 percent slopes	26.8	4.8%
HsB	Hudson silty clay loam, 2 to 6 percent slopes	7.1	1.3%
HsC3	Hudson silty clay loam, 6 to 12 percent slopes, eroded	3.5	0.6%
HzE	Hudson and Dunkirk soils, 20 to 45 percent slopes	1.7	0.3%
IcB	Ilion silty clay loam, 2 to 6 percent slopes	0.3	0.1%
LaB	Langford channery silt loam, 2 to 8 percent slopes	84.9	15.3%
LaC	Langford channery silt loam, 8 to 15 percent slopes	10.8	1.9%
LaC3	Langford channery silt loam, 8 to 15 percent slopes, eroded	44.5	8.0%
Mm	Madalin mucky silty clay loam	27.7	5.0%
Mp	Muck and Peat	1.1	0.2%
NaB	Niagara silt loam, 2 to 6 percent slopes	17.7	3.2%
OcC3	Ovid silty clay loam, 6 to 12 percent slopes eroded	0.0	0.0%
RhA	Red Hook gravelly silt loam, 0 to 5 percent slopes	10.7	1.9%
RkA	Rhinebeck silt loam, 0 to 2 percent slopes	17.2	3.1%
RkB	Rhinebeck silt loam, 2 to 6 percent slopes	79.2	14.2%
RnC3	Rhinebeck silty clay loam, 6 to 12 percent slopes, eroded	1.0	0.2%
Ws	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	31.0	5.6%
Totals for Area of Interest		**556.4**	**100.0%**

LEGEND

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- WOODED AREA OUTLINE
- GRUBBING CLEARING LIMIT
- TREE CUTTING LIMIT WINTER
- TREE CUTTING LIMIT SUMMER
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- RIGHT OF WAY
- PROPERTY LINE
- PV MODULES
- CHAIN-LINK FENCE
- CONCRETE PAD
- SILT FENCE
- E TRENCH
- ELECTRICAL WIRE
- GRAVEL ACCESS ROAD
- VEGETATIVE SCREEN
- N4 ARRAY NUMBER
- WETLAND

100 0 100 200 300 400'
1" = 200'

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NO:	DATE:	DESCRIPTION:
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PROJECT NUMBER: 2170026

DRAWN BY: TAP

REVIEWED BY:

ISSUED FOR:

DATE: 04/26/2017

DRAWING NAME:

GROUP "N" SOILS MAP

DRAWING NUMBER:

C-106

Date & Time: 6/1/2017 2:11 PM By: Petranchuk, Tim
File: K:\Drawings\Civil\AutoCAD\Constructs\Ellis Tract - Dryden, 5Ø Mt. Pleasant Road, Stevenson & Turkey Hill Road\Cornell Solar Site-March 2017.dwg

LEGEND

STANDARD SYMBOLS

- UTILITY POLE
- FENCELINE
- CENTERLINE
- WOODED AREA OUTLINE
- GRUBBING CLEARING LIMIT
- TREE CUTTING LIMIT WINTER
- TREE CUTTING LIMIT SUMMER
- MAJOR CONTOUR LINE
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- PV MODULES
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- GRAVEL ACCESS ROAD
- VEGETATIVE SCREEN
- N4 ARRAY NUMBER
- WETLAND

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DRAWN BY: TAP

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DATE: 04/12/2017

DRAWING NAME:

GROUP "S" EXISTING CONDITIONS PLAN

DRAWING NUMBER:

C-107

Date & Time: 6/1/2017 2:11 PM By: Petranchuk, Tim
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DESCRIPTION	TOTAL ACRES INSIDE FENCE (AC)	PANEL AREA (AC)	AREA COVERAGE RATIO
S1 Fenced Area	10.95	4.33	39.5%
S2 Fenced Area	11.63	4.26	36.6%
S3 Fenced Area	5.15	2.20	42.7%
S4 Fenced Area	13.00	4.36	33.5%
S5 Fenced Area	12.74	4.36	34.2%
Total Fenced Area	53.47		
Total Parcel Area	108.34		

LEGEND

STANDARD SYMBOLS

UTILITY POLE
FENCELINE
CENTERLINE
WOODED AREA OUTLINE
GRUBBING CLEARING LIMIT
TREE CUTTING LIMIT WINTER
TREE CUTTING LIMIT SUMMER
MAJOR CONTOUR LINE
MINOR CONTOUR LINE
RIGHT OF WAY
PROPERTY LINE
PV MODULES
CHAIN-LINK FENCE
CONCRETE PAD
SILT FENCE
E TRENCH
ELECTRICAL WIRE
GRAVEL ACCESS ROAD
VEGETATIVE SCREEN
N4 ARRAY NUMBER
WETLAND

100 0 100 200 300 400'
1" = 200'

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1	4/26/17	SEE REVISION CLOUDS
2	5/30/17	ROW SPACING, TRENCHES

PROJECT NUMBER: 2170026

DRAWN BY: TAP

REVIEWED BY: DW

ISSUED FOR: TOWN OF DRYDEN

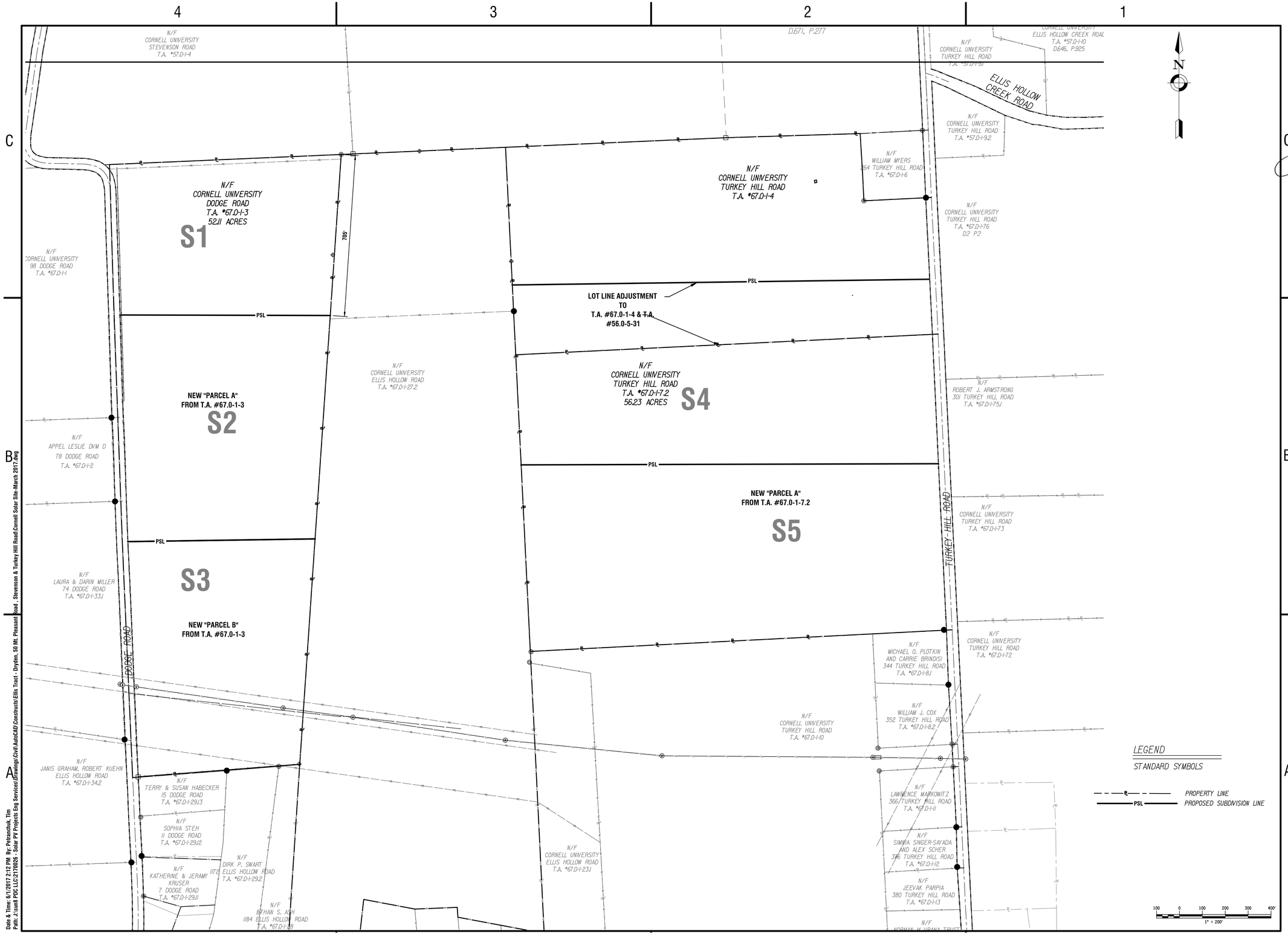
DATE: 04/12/2017

DRAWING NAME:

GROUP "S" PROPOSED SITE PLAN

DRAWING NUMBER:

C-108



Date & Time: 6/1/2017 2:12 PM By: Petranchok, Tim
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REVISIONS

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PROJECT NUMBER: 2170026

DRAWN BY: TAP

REVIEWED BY:

ISSUED FOR:

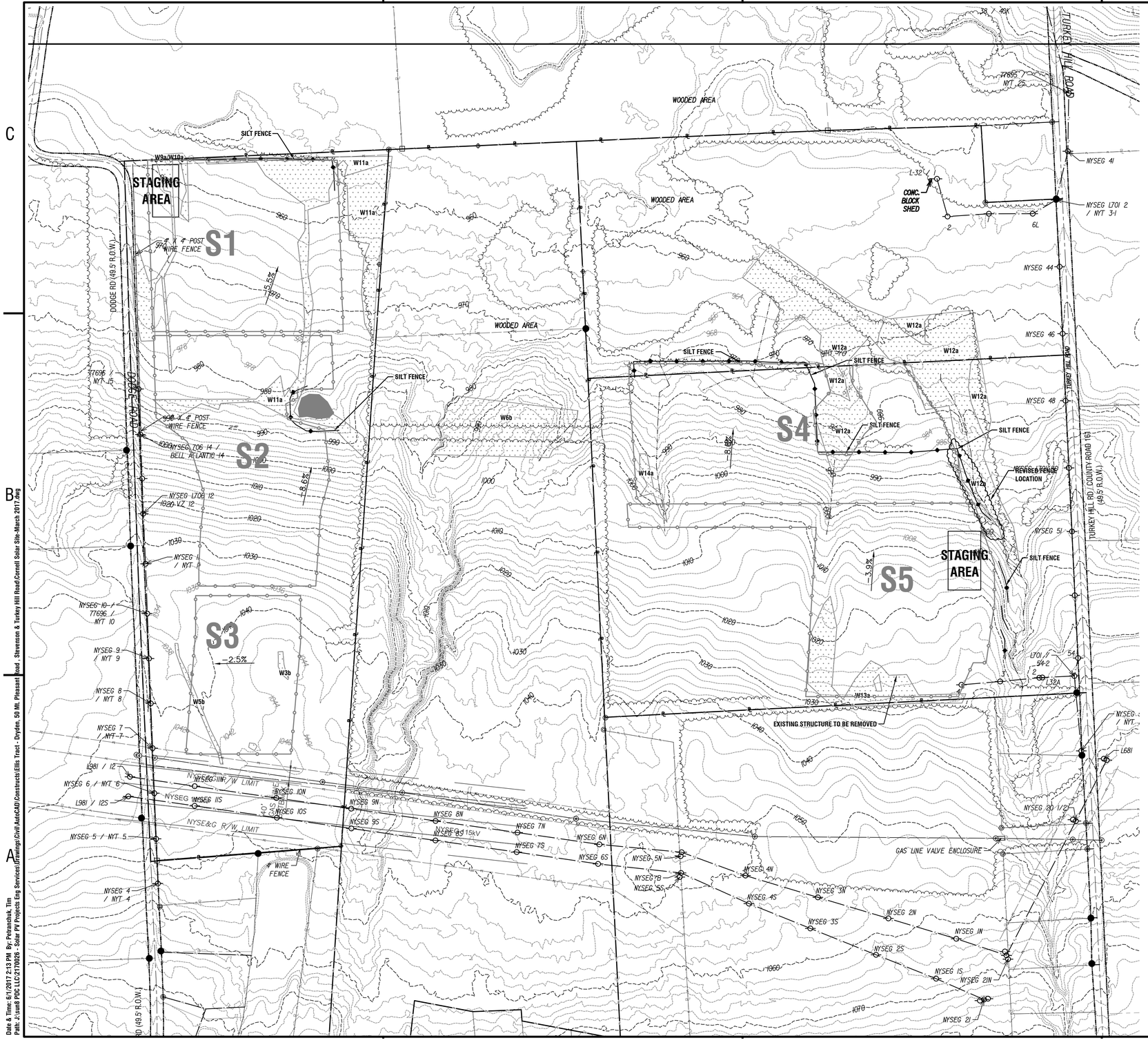
DATE: 04/12/2017

DRAWING NAME:

GROUP "S" PROPOSED SUBDIVISION PLAN

DRAWING NUMBER:

C-109



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DRAWING NAME:

GROUP "S" EROSION AND SEDIMENT CONTROL PLAN

DRAWING NUMBER:

C-110

Date & Time: 6/1/2017 2:13 PM By: Petranchuk, Tim
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TREE REMOVAL REQUIRED

AREA	SUMMER CLEARING	WINTER CLEARING
WITHIN N1 & NORTH OF N1	1.36	0.31
E SIDE OF N1, N2, N3		7.36
W SIDE OF N3	1.77	
WITHIN N3	1.22	
BETWEEN N4 & N5	0.64	
W OF Dodge Rd		3.19
N & E OF S1 & S2	3.98	0.06
WITHIN S2	0.55	
WITHIN S3	0.59	
UTILITY CORRIDOR		1.19
INSIDE S4, S5	11.13	
EAST OF S4	0.19	0.71
EAST OF S5		0.89
INSIDE S5	0.77	
INSIDE S5	1.24	
SOUTH OF S5		0.54
SUB TOTAL	23.44	14.25
TOTAL		37.69

LEGEND

STANDARD SYMBOLS

- UTILITY POLE
- FENCELINE
- CENTERLINE
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- SILT FENCE
- E TRENCH
- ELECTRICAL WIRE
- GRAVEL ACCESS ROAD
- VEGETATIVE SCREEN
- N4 ARRAY NUMBER
- WETLAND

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DRAWN BY: TAP

REVIEWED BY:

ISSUED FOR:

DATE: 04/12/2017

DRAWING NAME:

GROUP "S" TREE REMOVAL PLAN

DRAWING NUMBER:

C-111

Date & Time: 6/1/2017 2:13 PM By: Potanchuk, Tim
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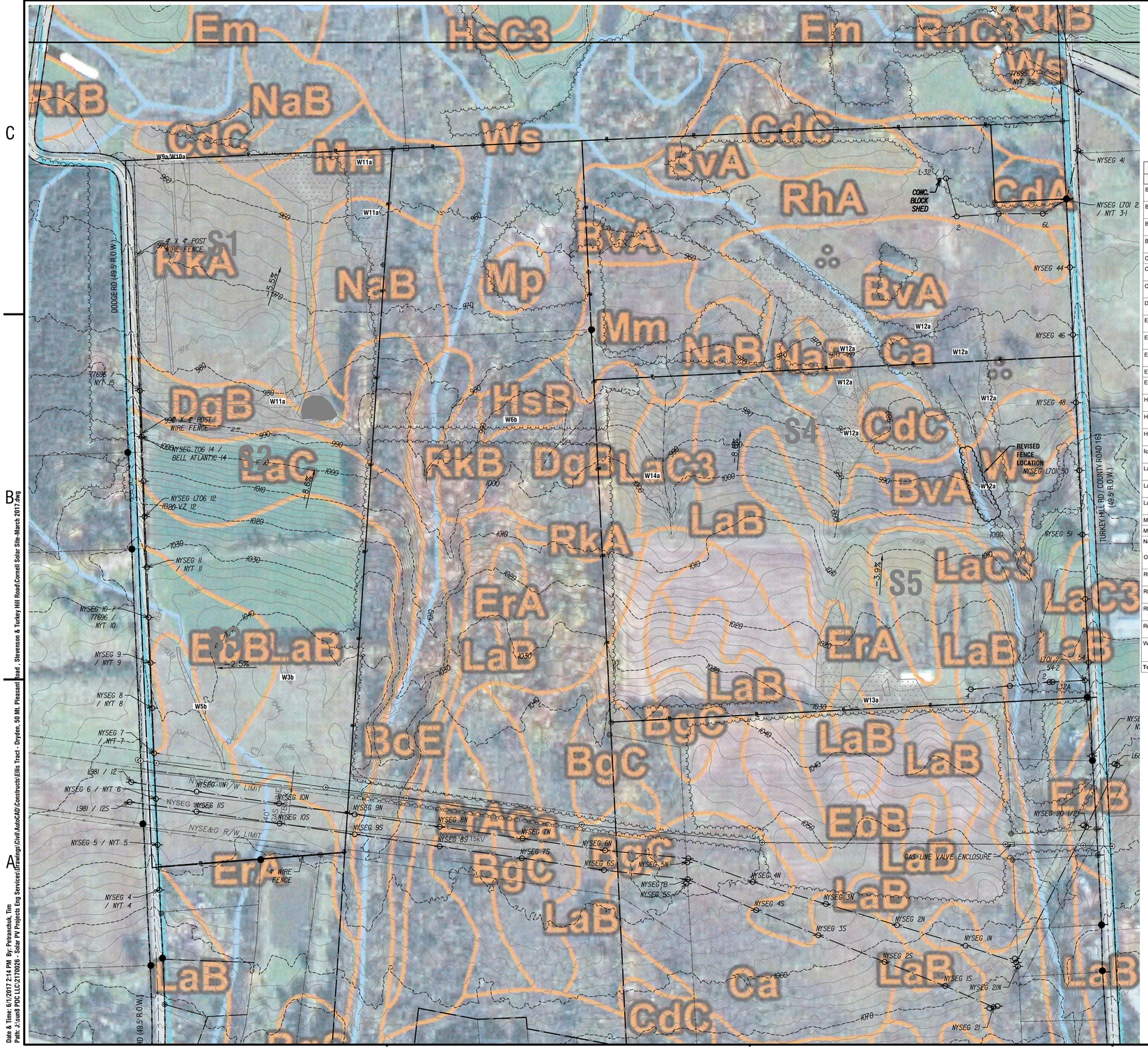

Map Unit Legend

Tompkins County, New York (NY109)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
BgC	Bath and Valois soils, 5 to 15 percent slopes	7.0	1.3%
BgD	Bath and Valois soils, 15 to 25 percent slopes, eroded	0.7	0.1%
BoE	Bath and Valois soils, 25 to 35 percent slopes	8.9	1.6%
BvA	Braceville gravelly silt loam, 0 to 5 percent slopes	5.7	1.0%
Ca	Canandaigua and Lamson soils	36.3	6.5%
CdA	Chenango gravelly loam, 0 to 5 percent slopes	2.2	0.4%
CdC	Chenango gravelly loam, 5 to 15 percent slopes	14.3	2.6%
DgB	Darien gravelly silt loam, 2 to 8 percent slopes	37.7	6.8%
EbB	Erie channery silt loam, 3 to 8 percent slopes	37.0	6.7%
EbC	Erie channery silt loam, 8 to 15 percent slopes	2.9	0.5%
EbC3	Erie channery silt loam, 8 to 15 percent slopes, eroded	11.7	2.1%
Em	Eel silt loam	26.8	4.8%
ErA	Erie-Chippewa channery silt loams, 0 to 3 percent slopes	26.8	4.8%
HsB	Hudson silty clay loam, 2 to 6 percent slopes	7.1	1.3%
HsC3	Hudson silty clay loam, 6 to 12 percent slopes, eroded	3.5	0.6%
HzE	Hudson and Dunkirk soils, 20 to 45 percent slopes	1.7	0.3%
IcB	Ilion silty clay loam, 2 to 6 percent slopes	0.3	0.1%
LaB	Langford channery silt loam, 2 to 8 percent slopes	84.9	15.3%
LaC	Langford channery silt loam, 8 to 15 percent slopes	10.8	1.9%
LaC3	Langford channery silt loam, 8 to 15 percent slopes, eroded	44.5	8.0%
Mm	Madalin mucky silty clay loam	27.7	5.0%
Mp	Muck and Peat	1.1	0.2%
NaB	Niagara silt loam, 2 to 6 percent slopes	17.7	3.2%
OcC3	Ovid silty clay loam, 6 to 12 percent slopes eroded	0.0	0.0%
RhA	Red Hook gravelly silt loam, 0 to 5 percent slopes	10.7	1.9%
RkA	Rhinebeck silt loam, 0 to 2 percent slopes	17.2	3.1%
RkB	Rhinebeck silt loam, 2 to 6 percent slopes	79.2	14.2%
RnC3	Rhinebeck silty clay loam, 6 to 12 percent slopes, eroded	1.0	0.2%
Ws	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	31.0	5.6%
Totals for Area of Interest		556.4	100.0%

LEGEND

STANDARD SYMBOLS

- UTILITY POLE
- FENCELINE
- CENTERLINE
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PROJECT NUMBER: 2170026

DRAWN BY: TAP

REVIEWED BY:

ISSUED FOR:

DATE: 04/12/2017

DRAWING NAME:

GROUP "S" SOILS MAP

DRAWING NUMBER:

C-112

Date & Time: 6/1/2017 2:14 PM By: Patnaude, Tim
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SCALE: 1"=400±

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DATE: 04/12/2017

DRAWING NAME:

ZONING MAP

DRAWING NUMBER:

C-113

Date & Time: 6/1/2017 2:38 PM By: Petpanichok, Tim
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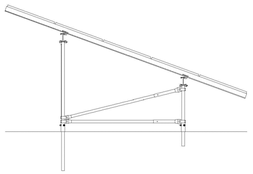
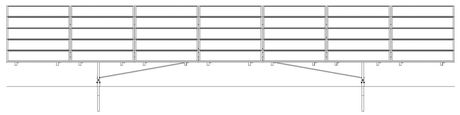
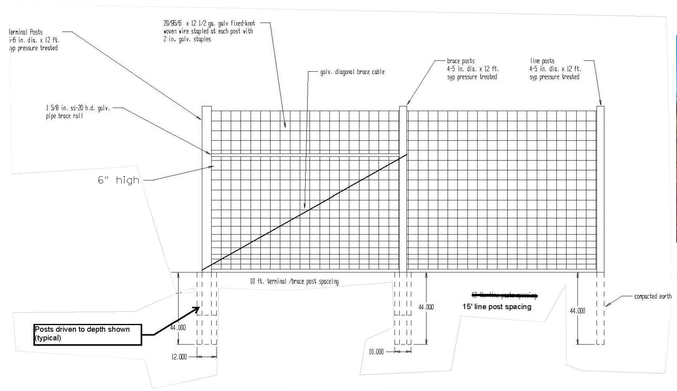


SIDE VIEW

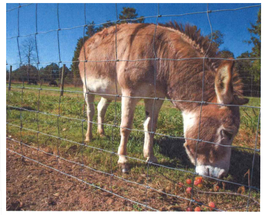


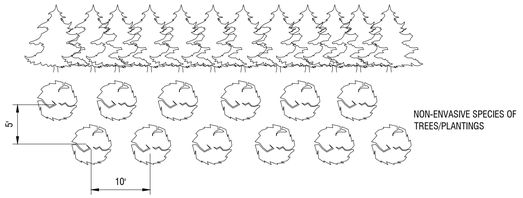
FRONT VIEW

TYPICAL RACKING PROFILE

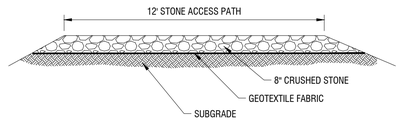


FENCE DETAIL





VEGETATIVE BARRIER DETAIL



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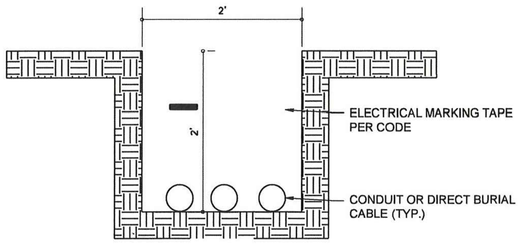


TRENCH DETAIL

Dimensions without Roof

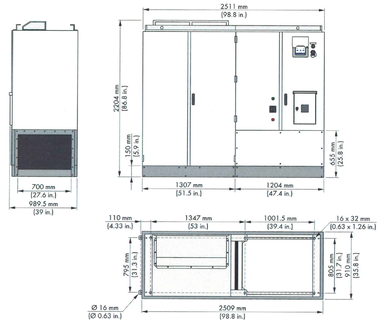


Figure 11: Dimensions without roof

Width	Height	Depth	Weight
8 ft. 2.59 in. (2,511 mm)	7 ft. 2.78 in. (2,204 mm)	2 ft. 11.83 in. (910 mm)	4,045 lb (1,835 kg)

Dimensions with Roof

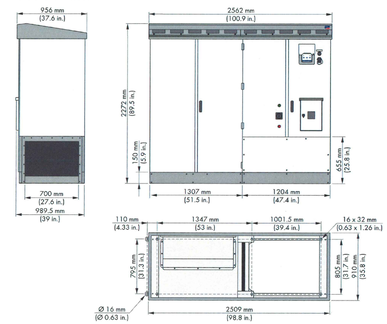
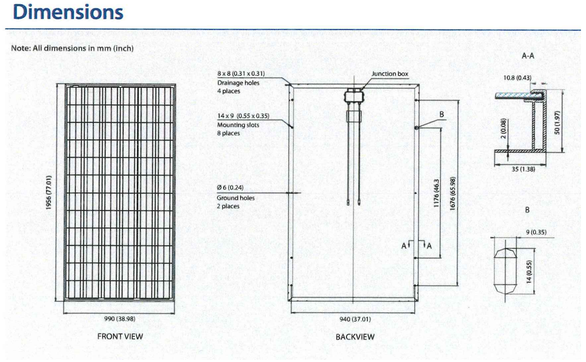


Figure 10: Dimensions with Roof

Width	Height	Depth	Weight
8 ft. 4.87 in. (2,562 mm)	7 ft. 5.45 in. (2,272 mm)	3 ft. 1.64 in. (956 mm)	4,123 lb (1,870 kg)

TYPICAL CENTRAL INVERTER



TYPICAL SOLAR PANEL

[PROPERTY OWNER NAME] SOLAR FARM

[ADDRESS OF SOLAR FARM]

MATERIAL DELIVERY ENTRANCE – CHECK IN WITH CONSTRUTION MANAGER / SUPERINTENDENT

SITE MAP:

DEVELOPED BY: Distributed Sun

CONSTRUCTION BY: Distributed Sun

CONTACT PHONE NUMBER: [888-999-0000]

Sign Size 12ft x 8ft

TYPICAL CONSTRUCTION SIGN

[PROPERTY OWNER NAME] SOLAR FARM

[ADDRESS OF SOLAR FARM]

[SIZE] - COMMISSIONED ON [DATE]

PHOTO OF SITE:

DEVELOPED BY: Distributed Sun

CONTACT PHONE NUMBER: [888-999-0000]

Sign Size 12ft x 8ft

TYPICAL PERMANENT SIGN

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SOLAR PHOTOVOLTAIC PLANTS

Distributed Sun

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DISTRIBUTED SUN

ELLIS TRACT PROJECT

DRYDEN, N.Y. 13053

REVISIONS

NO:	DATE:	DESCRIPTION:

PROJECT NUMBER: 2170026

DRAWN BY: TAP

REVIEWED BY:

ISSUED FOR:

DATE: 04/12/2017

DRAWING NAME:

MISCELLANEOUS DETAILS

DRAWING NUMBER:

C-114

Date & Time: 6/1/2017 10:13 AM By: Petranchuk, Tim
Path: J:\sun8 PDC LLC\2170026 - Solar PV Projects\Eng Services\Drawings\Civil\AutoCAD\Constructs\Ellis Tract - Dryden, 50 Mt. Pleasant Road, Stevenson & Turkey Hill Road\Equipment.dwg